

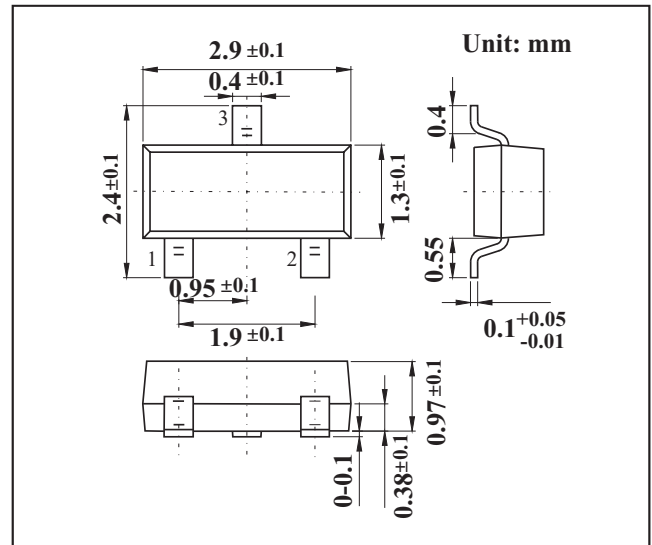
SOT-23 Plastic-Encapsulate Transistors

FEATURES

- Low collector to emitter saturation voltage
- allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing

MECHANICAL DATA

- Case style: SOT-23 molded plastic
- Mounting position: any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector-base voltage	VCBO	30	V
Collector-emitter voltage	VCEO	25	V
Emitter-base voltage	VEBO	5	V
Collector current	IC	500	mA
Peak collector current	ICP	1	A
Collector power dissipation	PC	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base voltage	VCBO	IC = 10 μ A, IE = 0	30			V
Collector-emitter voltage	VCEO	IC = 10 mA, IB = 0	25			V
Emitter-base voltage	VEBO	IE = 10 μ A, IC = 0	5			V
Collector-base cutoff current	ICBO	VCB = 20 V, IE = 0			0.1	μ A
Forward current transfer ratio	hFE	VCE = 10 V, IC = 150 mA	85	160	340	
Collector-emitter saturation voltage	VCE(sat)	IC = 300 mA, IB = 30 mA		0.35	0.6	V
Transition frequency	fT	VCB = 10 V, IE = -50 mA, f = 200 MHz		200		MHz
Collector output capacitance	Cob	VCB = 10V, IE = 0, f = 1.0MHz		6	15	pF

RATINGS AND CHARACTERISTIC CURVES

